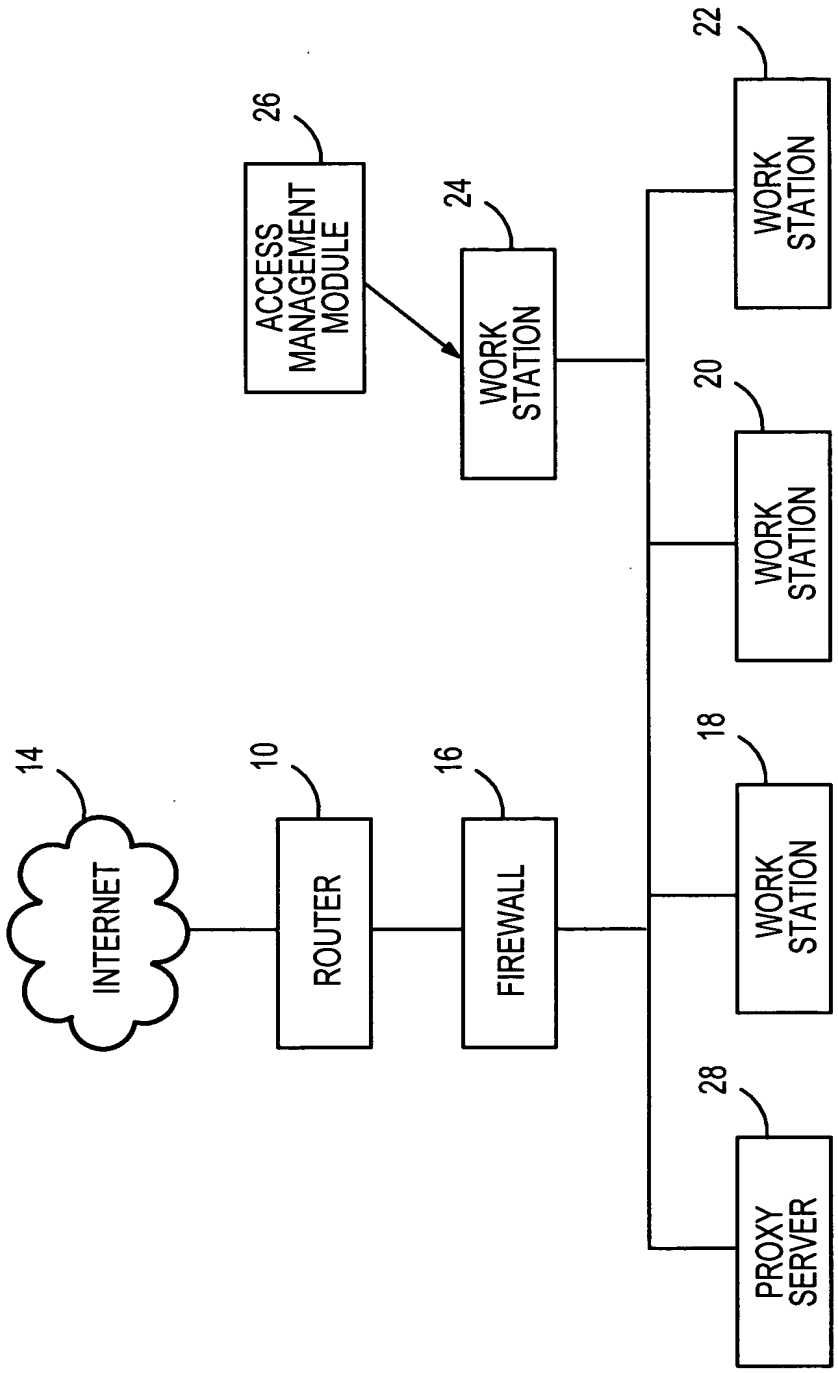
INTERNET
14
ROUTER
10
FIREWALL
16
ACCESS MANAGEMENT MODULE
26
WORK STATION
24
WORK STATION
22
WORK STATION
20
WORK STATION
18
PROXY SERVER
28

FIG. 1

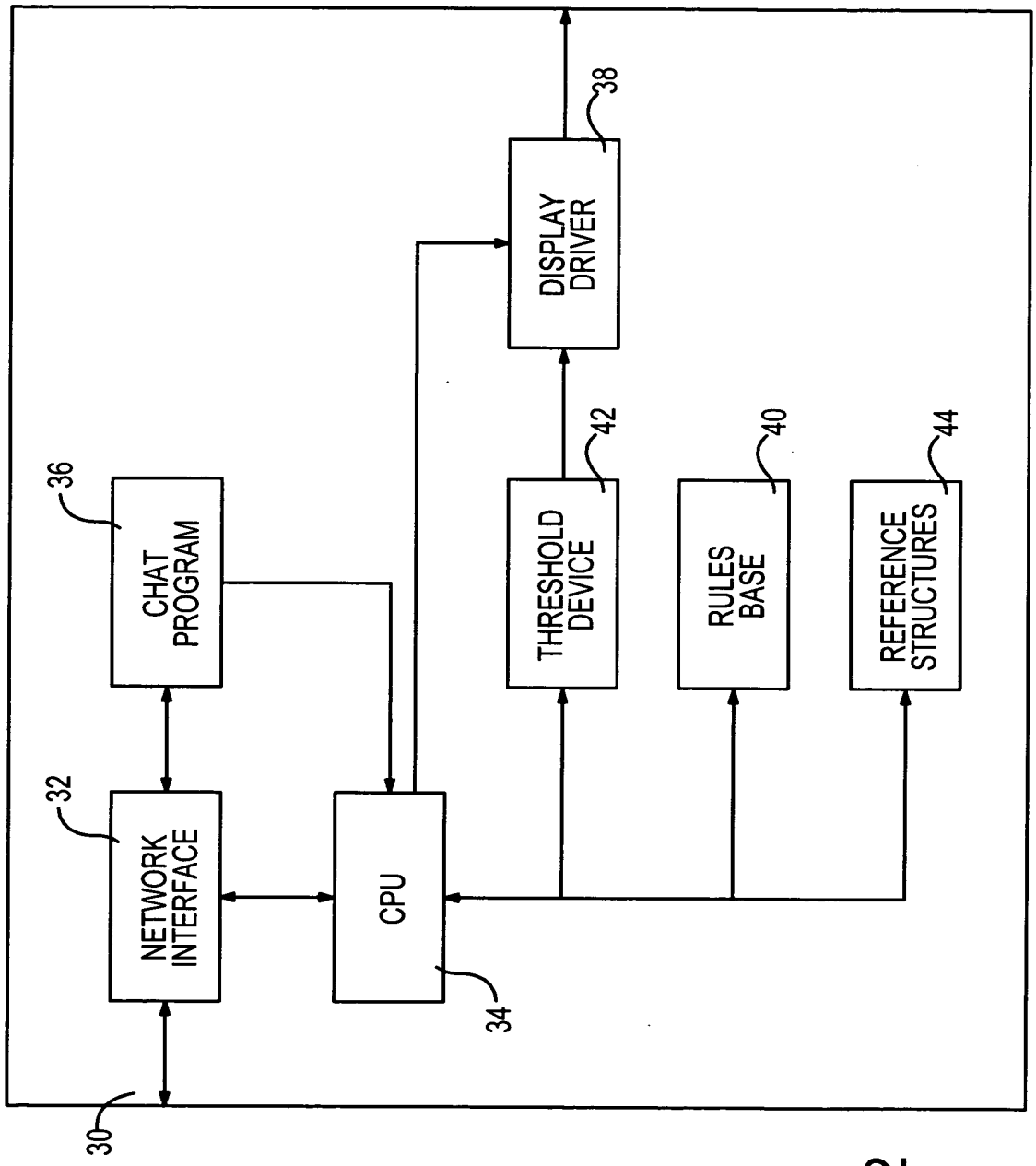
38
DISPLAY DRIVER
42
THRESHOLD DEVICE
40
RULES BASE
44
REFERENCE STRUCTURES
36
CHAT PROGRAM
32
NETWORK INTERFACE
CPU
34
30

FIG. 2

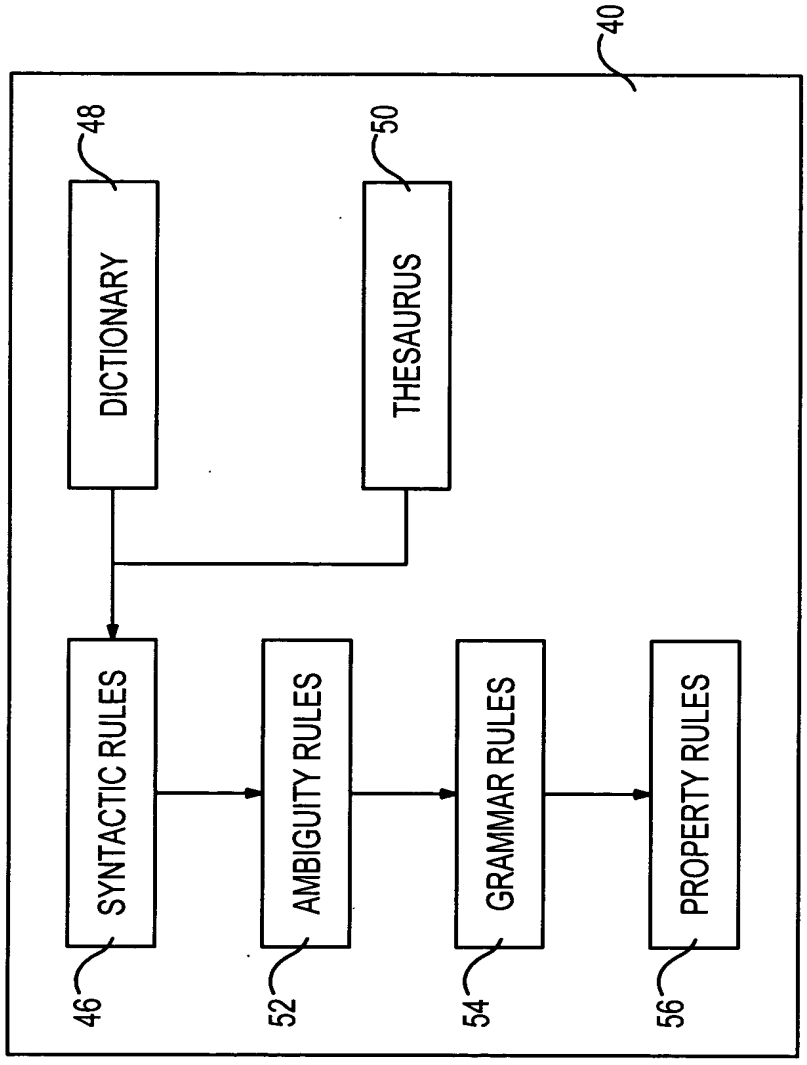
40
48
50
DICTIONARY
THESAURUS
SYNTACTIC RULES
AMBIGUITY RULES
GRAMMAR RULES
PROPERTY RULES
46
52
54
56

FIG. 3

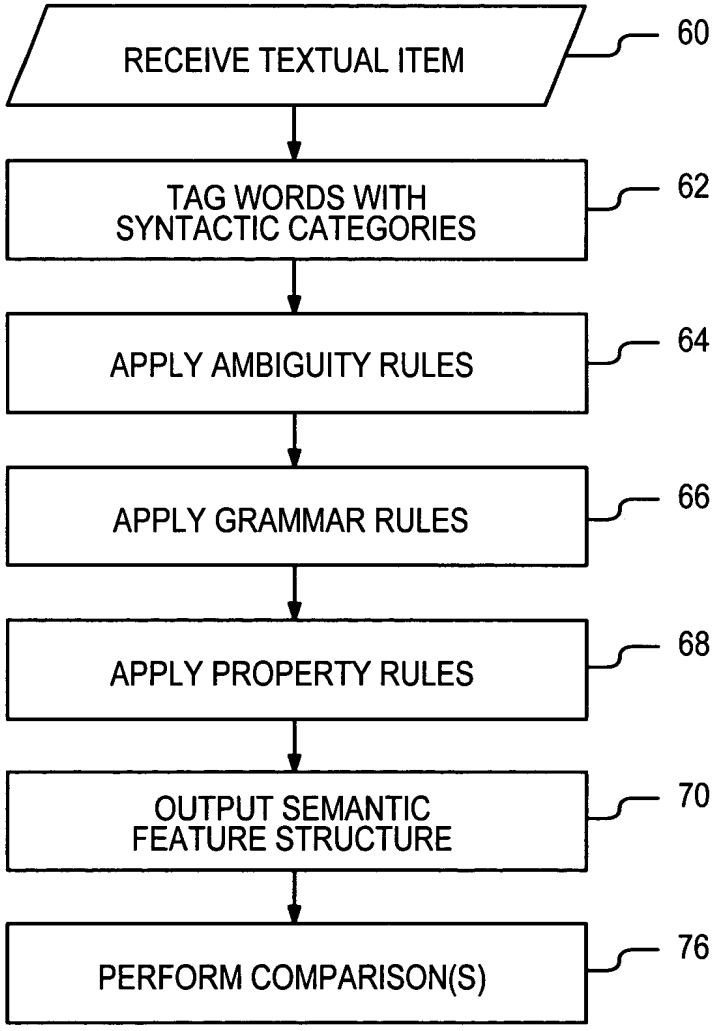
RECEIVE TEXTUAL ITEM
60
TAG WORDS WITH SYNTACTIC CATEGORIES
62
APPLY AMBIGUITY RULES
64
APPLY GRAMMAR RULES
66
APPLY PROPERTY RULES
68
OUTPUT SEMANTIC FEATURE STRUCTURE
70
PERFORM COMPARISON(S)
76

FIG. 4

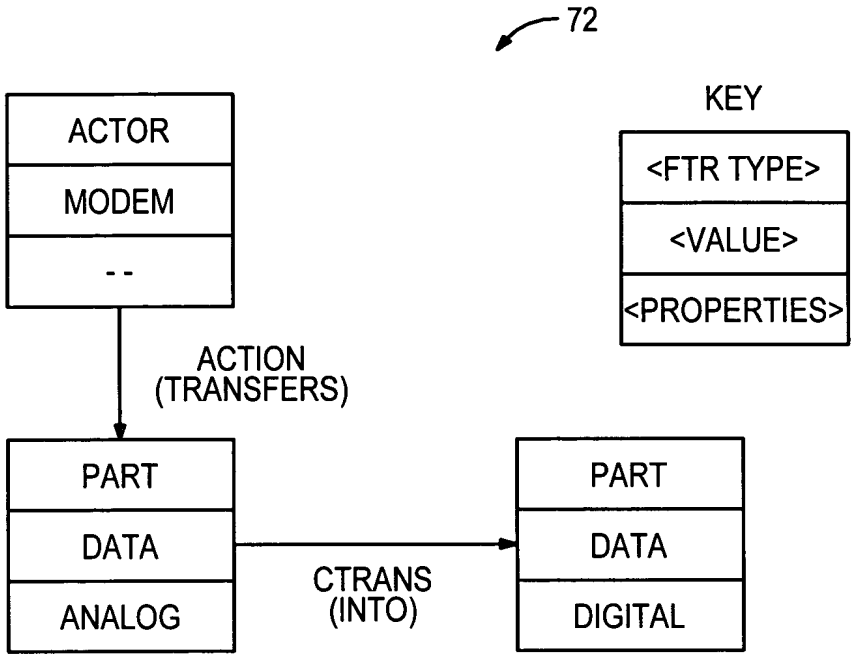
72
KEY
<FTR TYPE>
<VALUE>
<PROPERTIES>
ACTOR
MODEM
- -
ACTION
(TRANSFERS)
PART
DATA
ANALOG
CTRANS
(INTO)
PART
DATA
DIGITAL

FIG. 5

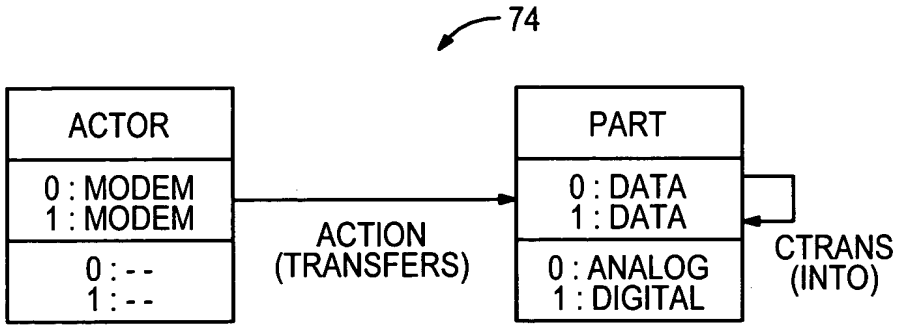
74
ACTOR
0 : MODEM
1 : MODEM
0 : - -
1 : - -
ACTION
(TRANSFERS)
PART
0 : DATA
1 : DATA
0 : ANALOG
1 : DIGITAL
CTRANS
(INTO)

FIG. 6

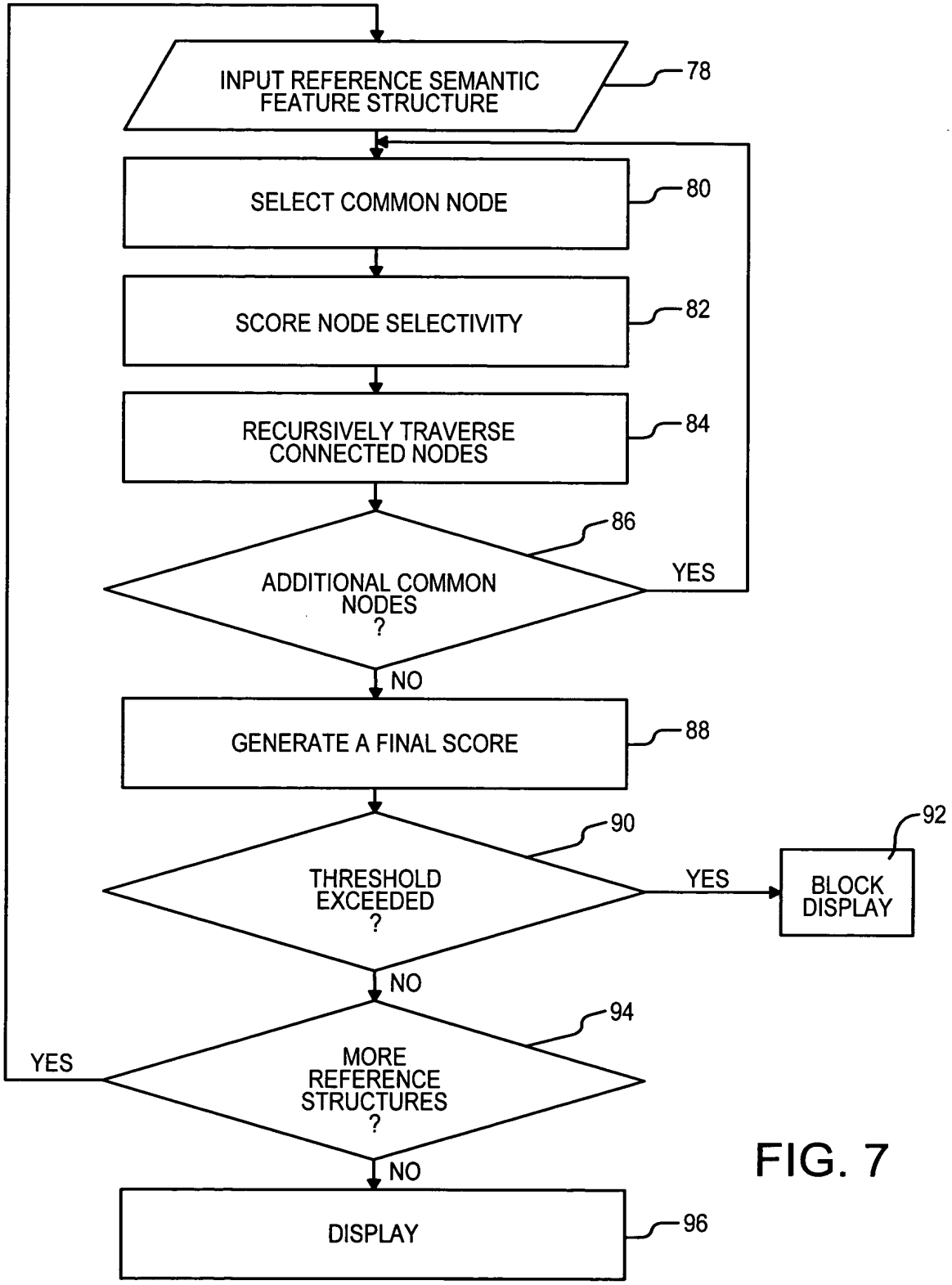
INPUT REFERENCE SEMANTIC FEATURE STRUCTURE
78
SELECT COMMON NODE
80
SCORE NODE SELECTIVITY
82
RECURSIVELY TRAVERSE CONNECTED NODES
84
ADDITIONAL COMMON NODES ?
86
YES
NO
GENERATE A FINAL SCORE
88
THRESHOLD EXCEEDED ?
90
YES
BLOCK DISPLAY
92
NO
MORE REFERENCE STRUCTURES ?
94
YES
NO
DISPLAY
96

FIG. 7